# NT COOPERATION TREAT

### **PCT**

### **NOTIFICATION OF ELECTION**

(PCT Rule 61.2)

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To:

**Assistant Commissioner for Patents United States Patent and Trademark** Office **Box PCT** Washington, D.C.20231

Date of mailing (day/month/year) in its capacity as elected Office 23 August 2000 (23.08.00)

International application No. PCT/US99/26241

Applicant's or agent's file reference 1909.003PC02

International filing date (day/month/year) 08 November 1999 (08.11.99) Priority date (day/month/year) 06 November 1998 (06.11.98)

**ETATS-UNIS D'AMERIQUE** 

**Applicant** 

CARCAGNO, Carlos, Miguel et al

1.		Office is hereby notified of its election made: and filed with the International Preliminary Examining Authority on:		
	<del></del>	05 June 2000 (05.06.00)	•	
	in a notice	effecting later election filed with the International Bureau on:		
		•		
2.	The election	X was		
		was not		
	made before the Rule 32.2(b).	expiration of 19 months from the priority date or, where Rule 32 appli	es, within the time	limit under

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Pascal Piriou

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35



# **PCT**

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 1792.003PC02	FOR FURTHER ACTION	see Notification of Transmittal of International Search (Form PCT/ISA/220) as well as, where applicable, item 5						
International application No.	International filing date	(day/month/year)	(Earliest) Priority Date (day/month/year)					
PCT/US99/26241	08 NOVEMBER 1999		06 NOVEMBER 1998					
Applicant STERRENBELD BIOTECHNOLOGIE	Applicant STERRENBELD BIOTECHNOLOGIE NORTH AMERICA, INC.							
<u>-</u>	This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.							
X It is also accompanied by a		ment cited in this re	eport.					
1. Certain claims were found	unsearchable (See Box I)							
2. Unity of invention is lacking	ng (See Box II).							
3. The international application international search was carr			amino acid sequence listing and the					
	filed with the international application.							
	furnished by the applicant separately from the international application,							
			ent to the effect that it did not include matter ne international application as filed.					
	transcribed by this Authori	ty.						
4. With regard to the title, X	the text is approved as sub	mitted by the applic	cant.					
	the text has been established	ed by this Authority	to read as follows:					
5. With regard to the abstract,								
×	the text is approved as sub	mitted by the applic	cant.					
		may, within one r	e 38.2(b), by this Authority as it appears month from the date of mailing of this o this Authority.					
6. The figure of the drawings to be published with the abstract is:								
Figure No	as suggested by the applic	ant.	None of the figures					
	because the applicant faile	d to suggest a figur	X None of the figures.					
	because this figure better of	characterizes the inv	ention.					



International application No. PCT/US99/26241

A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) ::C07K 1/14, 1/18, 1/20, 1/30, 1/34, 1/36, 14/505  US CL :530/380, 412, 414, 416, 417, 418, 419  According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIELDS SEARCHED	anadan vinssinomusi and 11 C					
Minimum documentation searched (classification system followe	d by classification symbols)					
U.S. : 530/380, 412, 414, 416, 417, 418, 419	•					
Documentation searched other than minimum documentation to the NONE	e extent that such documents are included	in the fields searched				
Electronic data base consulted during the international search (noted that the mean of the		, search terms used)				
C. DOCUMENTS CONSIDERED TO BE RELEVANT						
Category* Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.				
Y US 4,667,016 A(LAI et al) 19 May especially col. 4, lines 4-56.	1987, see entire document,	1-12				
X Cspecially col. 4, lines 4-30.		13-16				
USA), page 77, column 2, the abstraction of two his hydrophobic interaction chromatorgrams.	Chem. abstr., Vol. 100, No. 25, 18 June 1984 (Columbus. OH, USA), page 77, column 2, the abstract No. 203779s, WERBER et al. 'Preliminary purification of two human blood cell hormones by hydrophobic interaction chromatorgraphy.' Affinity Chromatogr. Biol. Recognit., [Proc. Int. Symp.], 5th. 1983, 495-497.					
		,				
X Further documents are listed in the continuation of Box C	See patent family annex.					
* Special categories of cited documents:  *A* document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the int date and not in conflict with the app the principle or theory underlying th	lication but cited to understand				
"E" earlier document published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"X" document of particular relevance; the considered novel or cannot be considered to the document is taken alone "Y" document of particular relevance; the considered to involve an inventive.	ered to involve an inventive step				
O' document referring to an oral disclosure, use, exhibition or other means  'P' document published prior to the international filing date but later than	combined with one or more other suc being obvious to a person skilled in	ch documents, such combination the art				
Date of the actual completion of the international search  Date of mailing of the international search						
23 FEBRUARY 2000  07 MAR 2000						
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231  Facsimile No. (703) 305-3230  Telephone No. (703) 308-0196						



International application No. PCT/US99/26241

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
ζ	Chem. abstr. Vol. 126, No. 5, 03 February 1997 (Columbus. OH, USA), page 315, column 2, the abstract No. 57095j, BURG et al. 'Human erthropoietin recombinant production by fermentation and protein purification using a series of chromatographic steps.' PCT Int. Appl. WO 96 35, 718. 14 November 1996.	1-2  13-16

09/830964

PATENT COOPERATION TREATY

# **PCT**

F.EC'D 0 3 AUG 2001

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT

14

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	T				
1909.003PC02	FOR FURTHER ACTION	See Noti Preliminar	fication of Transmittal of International y Examination Report (Form PCT/IPEA/416)		
International application No.	International filing date (day)	/month/year)	Priority date (day/month/year)		
PCT/US99/26241	08 NOVEMBER 1999		06 NOVEMBER 1998		
International Patent Classification (IPC) Please See Supplemental Sheet.	or national classification and I	PC			
Applicant STERRENBELD BIOTECHNOLOGIE	NORTH AMERICA, INC.				
2. This REPORT consists of a  Phis report is also accombeen amended and are th	total of sheets.  spanied by ANNEXES, i.e., sheet basis for this report and/or stion 607 of the Administrative	eets of the desc	cription, claims and/or drawings which have		
		itama			
I					
Date of submission of the demand	Date	of completion	of this report		
05 JUNE 2000	1	8 JUNE 2001			
Name and mailing address of the IPEA/US  Commissioner of Patents and Trademarks Box PCT  Washington, D.C. 20231		NISH GUPTA	tea Samence For		
Facsimile No. (703) 305-3230	Telep	hone No. (7	03) 308-0196		

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US99/26241

I. Basis of	f the report	
1. With regard	to the elements of the international application:*	
	nternational application as originally filed	
the de	escription:	
ت pages	(See Attached)	. as originally filed
pages	3	, filed with the demand
pages	, filed with the letter of	
₩ the ci	laims:	
	(See Attached)	as originally filed
	, as amended (together with ar	, as originally lineu
pages		, filed with the demand
pages	, filed with the letter of	, , , , , , , , , , , , , , , , , , , ,
the de	rawings:	
X the dr	(Con Americal)	
	(See Attached)	, as originally filed
pages	, filed with the letter of	, filed with the demand
	, mod with the letter of	
X the sec	quence listing part of the description:	
	(See Attached)	
pages		, filed with the demand
pages	, filed with the letter of	
the lan	nents were available or furnished to this Authority in the following language	n (under Rule 23.1(b)).
preliminary	d to any nucleotide and/or amino acid sequence disclosed in the internation y examination was carried out on the basis of the sequence listing:	nal application, the international
	ned in the international application in printed form.	
filed to	ogether with the international application in computer readable form.	
furnish	ned subsequently to this Authority in written form.	
furnish	ned subsequently to this Authority in computer readable form.	
The sta	atement that the subsequently furnished written sequence listing does not go tional application as filed has been furnished.	beyond the disclosure in the
	terment that the information recorded in computer readable form is identical to t	the writen sequence listing has
	nendments have resulted in the cancellation of:	
	he description, pages none	
LX t	he claims, Nos. none	
X ti	he drawings, sheets/ <del>fig</del> none	
5. This rep	port has been drawn as if (some of) the amendments had not been made, since the	nev have been considered to go
beyond	d the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	_
* Replacement : in this report and 70.17).	sheets which have been furnished to the receiving Office in response to an invitation as "originally filed" and are not annexed to this report since they do not con	under Article 14 are referred to ntain amendments (Rules 70.16
**Any replacer	ment sheet containing such amendments must be referred to under item 1 and	annexed to this report.

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US99/26241

V. Reasoned statement under Article 35 citations and explanations supporting	(2) with regards	ard to novelty, inventive step or industrial appl nent	icability;
1. statement			
Novelty (N)	Claims	1-12	YE
	Claims	13-16	NO
Inventive Step (IS)	Claims	1-12	YE:
	Claims	13-16	NO
Industrial Ameliackilia, (IA)	Claima	1.16	
Industrial Applicability (IA)	Claims Claims	I-16 NONE	YES
teach purification of recombinant human erythi	ropoletin from ropoletin using using differen	), because the prior art does not teach or fairly suggest cell cultures. The closes prior art of Lai et al. and Burg various chromatographic methodologies. The reference that saline precipitation. Therefore, the prior art does not	g et al.
		<b>(3</b>	

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US99/26241

### Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

### CLASSIFICATION:

The International Patent Classification (IPC) and/or the National classification are as listed below: IPC(7): C07K 1/14, 1/18, 1/20, 1/30, 1/34, 1/36, 14/505 and US Cl.: 530/380, 412, 414, 416, 417, 418, 419

#### I. BASIS OF REPORT:

This report has been drawn on the basis of the description, page(s) 1-19, as originally filed.
page(s) NONE, filed with the demand.
and additional amendments:
NONE

This report has been drawn on the basis of the claims, page(s) 20-21, as originally filed.
page(s) NONE, as amended under Article 19.
page(s) NONE, filed with the demand.
and additional amendments:
NONE

This report has been drawn on the basis of the drawings, page(s) NONE as originally filed. page(s) NONE, filed with the demand. and additional amendments:

Pages 1-5, filed with the letter of 31 July 2000.

This report has been drawn on the basis of the sequence listing part of the description: page(s) NONE, as originally filed.
pages(s) NONE, filed with the demand.
and additional amendments:
NONE